

BORE HOLE OPENER

ABSTRACT OF THE DISCLOSURE

A bore hole opener for enlarging a bore hole includes a longitudinal body, a duct for drilling fluid, formed longitudinally in the body, having a fluid passage cross-section of inside radius  $i$ , and at least two hole-opening arms, borne by the body, which have an active part equipped with cutting mechanisms, which are arranged therein in such a way that they can slide between a position of rest in the body and an active position partially out of the body, and which are guided and supported for this purpose in the body over a distance  $g$  and which, in the active position, project from the body by a length  $o$ , in which the values of  $i$ ,  $g$  and  $o$  are chosen to simultaneously satisfy the conditions  $i + g + o = s$ ;

$$0.30 < i/s < 0.45, \quad 0.40 < g/s < 0.60, \quad 0.07 < o/s < 0.20.$$